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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/766,158

01/27/2004

Iosif R. Korsunsky

3378

25859

7590

12/10/2004

WEI TE CHUNG

FOXCONN INTERNATIONAL, INC.

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EXAMINER

HYEON, HAE M

ART UNIT

PAPER NUMBER

2839

DATE MAILED: 12/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/766,158	Applicant(s) KORSUNSKY ET AL.	
	Examiner Hae M Hyeon	Art Unit 2839	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 10-16 is/are rejected.
- 7) ☒ Claim(s) 6-9 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/27/04</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

2. Claims 10-12 rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential elements, such omission amounting to a gap between the elements. See MPEP § 2172.01. The omitted element is: a motherboard.

Claim 10 recites a card edge connector and a board hold down defines a support plane for supporting a daughter card. However, claim 10 does not recite what or where the card edge connector and the board hold down are placed.

3. Claims 15 and 16 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: an anti-overstress portion of the board holder and the other portions of the board holder such as the locating portion, the resilient arm, and the latching element.

Claim 15 simply recites that the resilient arm is restrainedly moveable between opposite first and second positions defined by an anti-overstress portion of the board holder. However, it is not clear how the anti-overstress portion defined the opposite first and second positions and where the anti-overstress portion is located in the board holder.

Claim Rejections - 35 USC § 102

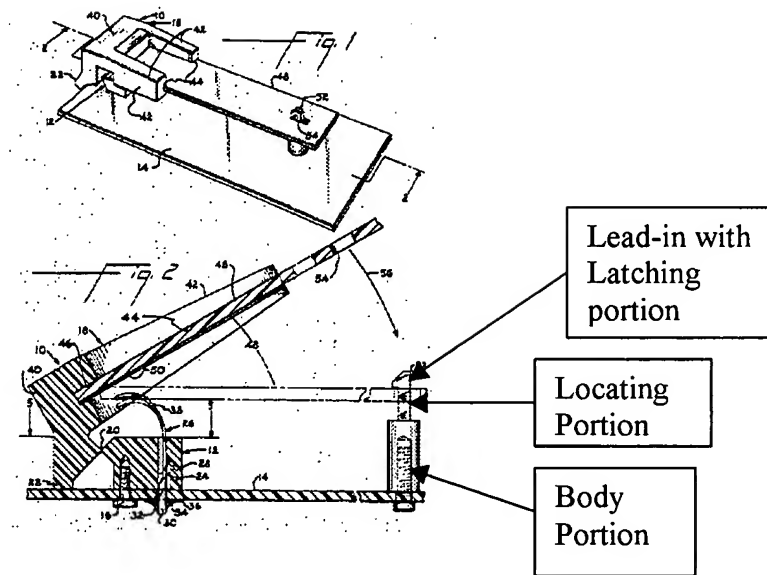
4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

5. Claims 1-4, 10, 13 and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Landman (3,701,071).

Landman discloses an electrical connector assembly comprising a motherboard 14, a daughter card 48, a card edge connector 10, and a board holder 52. The card edge connector comprises a housing (portion 18) defining a slot 44 for receiving the daughter card 48. A plurality of contacts 26 is disposed in the housing (portion 12) and is exposed into the slot 44. The daughter card 48 comprises a mating edge having a plurality of conductive pads 50 for electrically connecting with the contacts 26 of the card edge connector 10. The board hold down 52 is separated from the card edge connector 10 and mounted on the motherboard 14 for holding the daughter card 48 in the card edge connector 10 and keeping the daughter card 48 parallel to the motherboard 14. The board hold down comprises a body portion supporting the daughter card 48, a locating portion extending upwardly from the body portion and having a lead-in formed on a top end of the locating portion for extending into an engaging hole 54 of the daughter card 48, and a latching portion for downwardly pressing a rear edge section of the daughter card 48.



Claim Rejections - 35 USC § 103

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Landman in view of Shipe et al (6,773,268).

Claim 5 recites that the board hold down comprises a leg portion extending downwardly from the body portion to engage a retention hole of the motherboard. However, the board hold down 52 of Landman does not have leg portion. Instead, Landman uses a screw to fix the board hold down 52 on the motherboard 14.

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Shipe disclose a board hold down 1 comprising a body portion 13 and 14 and a leg portion 11 extending downwardly from the body portion 14 to engage a retention hole 80 of a motherboard 8.

It would have been obvious at the time the invention was made to a person having ordinary skill in the art to the board hold down taught by Landman such that it would have a leg portion as taught by Shipe because it only deals with the use of different mounting structure without changing the function of the board hold down. Also, both leg portion and screw for mounting the board hold down are well known in the art of an electrical connector.

Allowable Subject Matter

8. Claims 6-9, 11 and 12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

9. Claims 15 and 16 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

10. The following is a statement of reasons for the indication of allowable subject matter: None of the cited prior arts shows the board hold down comprising a body portion having a resilient arm and an anti-overstress extending from a first and a second ends of the body portion, respectively or the body portion having an arc-shaped and a resilient arm extending from a first end of the body portion and a latch portion extending upwardly from the resilient arm.

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Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. 3,848,952 by Tighe, Jr., US Patent No. 4,678,252 by Moore, US Patent No. 5,452,184 by Scholder et al., US Patent No. 5,951,315 by Ichimura and US Patent No. 6,234,820 B1 by Perino et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hae M Hyeon whose telephone number is 571-272-2093. The examiner can normally be reached on Mon.-Fri. (8:30-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tulsidas C Patel can be reached on (571) 272-2098. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hae M Hyeon
Primary Examiner
Art Unit 2839

hnh

hnh

Hae Moon Hyeon